

# INTERNATIONAL SEARCH REPORT

International Application No  
PC1/JP2004/014423

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H04L25/06 H04L27/38

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>EP 1 024 634 A (TRW INC) 2 August 2000 (2000-08-02) abstract column 3, line 16 - line 26 column 4, line 25 - line 50 column 5, line 25 - line 30; figures 4-6 column 6, line 51 - column 7, line 39; figures 10-13 claim 1</p> <p style="text-align: center;">----- -/-</p>	1-13

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

10 February 2005

Date of mailing of the international search report

22/02/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>YINGJIU XU ET AL: "Pilot symbol assisted QAM with iterative filtering and turbo decoding over Rayleigh flat-fading channels"</p> <p>MILCOM 1999. IEEE MILITARY COMMUNICATIONS CONFERENCE PROCEEDINGS. ATLANTIC CITY, NJ, OCT. 31 - NOV. 3, 1999, IEEE MILITARY COMMUNICATIONS CONFERENCE, NEW YORK, NY : IEEE, US, vol. VOL 1 OF 2 CONF. 18, 31 October 1999 (1999-10-31), pages 86-91, XP002179089 ISBN: 0-7803-5539-3 page 87</p>	1-13
A	<p>LE GOFF S ET AL: "Turbo-codes and high spectral efficiency modulation"</p> <p>COMMUNICATIONS, 1994. ICC '94, SUPERCOMM/ICC '94, CONFERENCE RECORD, 'SERVING HUMANITY THROUGH COMMUNICATIONS.' IEEE INTERNATIONAL CONFERENCE ON NEW ORLEANS, LA, USA 1-5 MAY 1994, NEW YORK, NY, USA, IEEE, 1 May 1994 (1994-05-01), pages 645-649, XP010126658 ISBN: 0-7803-1825-0 page 647, left-hand column</p>	1-13
A	<p>EP 0 887 976 A (SONY CORPORATION) 30 December 1998 (1998-12-30) figures 9,23</p>	1-13
A	<p>CAVERS J K: "AN ANALYSIS OF PILOT SYMBOL ASSISTED MODULATION FOR RAYLEIGH FADING CHANNELS"</p> <p>IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, IEEE INC. NEW YORK, US, vol. 40, no. 4, 1 November 1991 (1991-11-01), pages 686-693, XP000278280 ISSN: 0018-9545 page 690, right-hand column; figure 7</p>	1-13

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